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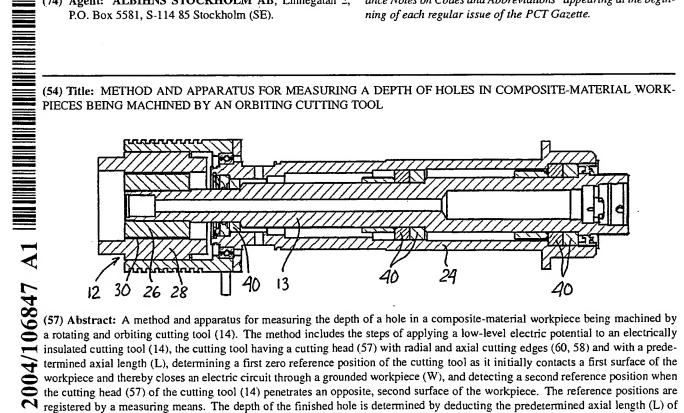
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the cutting head (57) of the cutting tool (14) penetrates an opposite, second surface of the workpiece. The reference positions are registered by a measuring means. The depth of the finished hole is determined by deducting the predetermined axial length (L) of the cutting head (57) having penetrated the workpiece from the total length of axial advancement of the cutting tool from the first zero reference position to the second reference position. The orbital machining apparatus includes ceramic bearings (40) electrically insulating the spindle (13) and the cutting tool (14) from surrounding components of the apparatus.

